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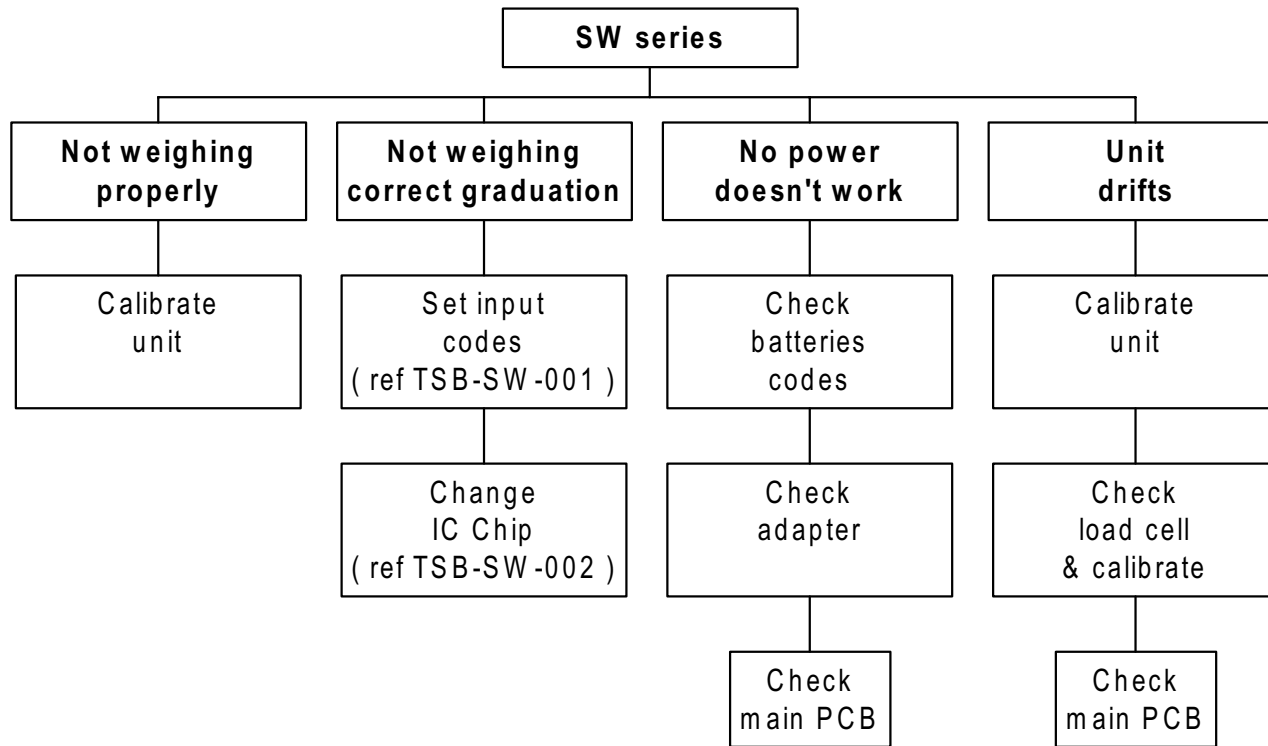# SW series Service Manual

1st Generation   SW series – g, kg, oz, lb

◆ SW series Repair Overview
◆ Calibration Instructions
◆ Technical Service Bulletins
◆ Recommended Parts List

If you should have any questions, please call 1.800.694.4445
and ask for our Technical Service Specialist.

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SW series BENCH SCALES

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                          ┌──────────────┐
                          │  SW series   │
                          └──────┬───────┘
        ┌────────────────┬───────┴────────┬────────────────┐
┌───────────────┐ ┌───────────────┐ ┌──────────────┐ ┌──────────────┐
│ Not weighing  │ │ Not weighing  │ │  No power    │ │    Unit      │
│  properly     │ │correct gradu- │ │ doesn't work │ │   drifts     │
│               │ │   ation       │ │              │ │              │
└───────┬───────┘ └───────┬───────┘ └──────┬───────┘ └──────┬───────┘
┌───────────────┐ ┌───────────────┐ ┌──────────────┐ ┌──────────────┐
│  Calibrate    │ │  Set input    │ │   Check      │ │  Calibrate   │
│    unit       │ │   codes       │ │  batteries   │ │    unit      │
│               │ │(ref TSB-SW-001)│ │   codes      │ │              │
└───────────────┘ └───────┬───────┘ └──────┬───────┘ └──────┬───────┘
                  ┌───────────────┐ ┌──────────────┐ ┌──────────────┐
                  │   Change      │ │   Check      │ │   Check      │
                  │   IC Chip     │ │  adapter     │ │  load cell   │
                  │(ref TSB-SW-002)│ │              │ │ & calibrate  │
                  └───────────────┘ └──────┬───────┘ └──────┬───────┘
                                    ┌──────────────┐ ┌──────────────┐
                                    │   Check      │ │   Check      │
                                    │  main PCB    │ │  main PCB    │
                                    └──────────────┘ └──────────────┘
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Calibration Instructions

SW-C001   1st generation

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Calibration Instructions : SW-C001

q MODELS : SW series (1ˢᵗ generation)

q ACTION :   Calibration instructions

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To calibrate the SW series, please follow the following procedures:

1   Remove the cover plate on the bottom of the scale to locate the calibration button.
2   Press down on the switch while powering the unit on at the same time.
3   The display will flash CAL three times and then blank out.
4   Press the ON/OFF key until the display shows LOAD
5   Put the appropriate full capacity on the platter, wait a few seconds for the scale to stabilize and press
         the ON/OFF key – the display will show END and then blank out.
6   Press the ZERO key to return the scale to the regular weighing mode.

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Technical Service Bulletins

SW-TSB001   Setting input codes (1st generation)
SW-TSB002   Changing in IC Chip

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Technical service Bulletin : SW-TSB001

□ **MODELS : SW series - all capacities (1st generation)**

□ **ACTION : Setting input codes**

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To set the appropriate setting codes for each model within the SW series, please note the following procedures:

1   Remove the cover plate on the bottom of the scale to locate the calibration button
2   Press the ON/OFF key once, and the display will read C-SET and then 1-XX (XX represents a numerical value at random).
3   Depending on the model you are working on, please note the codes appropriate to the SW model in question:

	SW5	SW10	SW20	SW50
Setting 1	21	22	23	24
Setting 2	32	32	32	32
Setting 3	12	12	12	12

4   To change the numerical value to match the above codes, you must first change the right hand number and move it to the left-hand position.

i.e. Using the SW5 model as example, and if C-SET shows 1-15, then you will need to use the UNIT key until the right hand number displays 2 to match the left hand default codes (setting 1= 2̲1)

4   Once the proper left-hand code is seclected, move it from the right-hand position to the left-hand position by pressing the TARE key.
5   At this time, continue to use the UNIT key to now adjust the right hand number to display 1 (giving us a C-SET code of 1-21).
6   Once the appropriate code setting has been selected, press the ZERO key to accept and move to the SETTING 2 line.
7   To set the appropriate code for SETTING 2, follow steps 4 to 7. Continue this way until SETTING 3 is completed.
8   Once SETTING 1,2, & 3 have been completed, you will then press the ZERO key and the display will show you END.
9   Calibrate the scales according to the procedures detailed on CAL-SW-001.

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Technical service Bulletin : SW-TSB002

□ **MODELS : SW series - all capacities (1st generation)**

□ **ACTION : Changing the IC93CC46 Chip**

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When setting the input codes does not work, it will be required to change the IC93C46 chip on the main board. the procedures below details how this is done:

1   The IC93C46 is located towards the center left of the main board (1 ½" left from the center of the processing chip). It is identified with the code U3.
2   To remove the chip, you must unsolder all 8 pins that attach the chip to the main board.
3   First use an appropriate wire cutter and carefullly cut each of the 8 pins that attach the chip to the main board.
4   With tweezers, hold the chip and use a soldering iron to unsolder each pin, one at a tiime, until you are able to remove the chip.
5   With a lead remover, remove all excessive lead from the main board.
6   Align the new chip with the circle mark that is found on the main board and its' corresponding circle mark on the chip.
7   When the chip is properly attached, the scale will need to be calibrated (reference SW-C001).

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Recommended Parts List
SW series

Item Description	Item Number	Generation
Adapter	851184	1st
Main PCB board	851175	1st
SW keypad overlay	851174	1st

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